

CLAIMS

1. A reciprocable connector assembly for coupling a service line through a path in a wellhead and hangar wall, the assembly comprising:

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a connector for coupling with a corresponding connector disposed in the hangar wall;

a shuttle carrying said connector between a first position in which the connector is not coupled to the corresponding connector and a second position in which it is coupled,

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at least one service line connected at one end to the connector and wound in a plurality of turns to extend or retract with respect to one another as the shuttle moves between the first and second positions.

15 and a support constraining movement of the turns.

2. A reciprocable assembly according to claim 1 in which the service line is a power line.

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3. A reciprocable assembly according to claim 2 in which the cores of the power line are wound in separate turns.

4. A reciprocable assembly according to claim 1 in which the service line is an optical fibre line.

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5. A reciprocable connector according to any preceding claim in which the support constrains movement to axial movement.

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6. A reciprocable connector according to any preceding claim in which the support is located internally of the turns.

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7. An assembly for providing a service line connection through a wellhead member and tubing hangar, the assembly comprising:

a wellhead member having a first passageway through a wall thereof;

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a hangar body having a second passageway therethrough and a coupling element disposed within the second passageway;

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a reciprocable shuttle carrying a connector, the shuttle being disposed for translation between a retracted position in which the connector and coupling element are not connected and an extended position in which the connector and coupling element are coupled,

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at least one service line being fixedly connected to the connector and looped in a plurality of supported turns that expand as the shuttle moves to the extended position.

8. A reciprocable connector assembly substantially as hereinbefore described with reference to and as illustrated in any of Figures 2 to 5 of the accompanying drawings.

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9. An assembly for providing a service line connection through a wellhead member and tubing hangar substantially as hereinbefore described with reference to and as illustrated in Figures 2 to 5 of the accompanying drawings.

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